

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Original) A passive type emission flux sampler for measuring a emission flux of a specified chemical sample released from an inspection object into air, in which

an opening is formed to a bottom surface of a hollow casing to be bonded to an inspection object for taking in a chemical substance released from the inspection object into the casing in a state of bonding the bottom surface to the inspection object, a test specimen that takes place color change reaction with the chemical substance under a humid circumstance is disposed to the inner surface of the casing of an opposite side of the opening, and the casing has a gas barrier property.

2. (Original) A passive type emission flux sampler for measuring a emission flux of a specified chemical sample released from an inspection object into air, in which

an opening is formed to a bottom surface of a hollow casing to be bonded to an inspection object for taking in a chemical substance released

from the inspection object into the casing in a state of bonding the bottom surface to the inspection object, a test specimen that takes place color change reaction with the chemical substance under a humid circumstance is disposed to the inner surface of the casing of an opposite side of the opening, and a transparent observing section is formed to the casing for observing the color change of the test specimen from the outside in a state being bonded to the inspection object.

3. (Original) A passive type emission flux sampler according to claim 2, wherein the hollow casing has a gas barrier property.

4. (Currently Amended) A passive type emission flux sampler according to claim 1 ~~or 3~~, wherein a gas barrier film is formed to at least one of the outer surface or the inner surface of the hollow casing to provide the hollow casing with a gas barrier property.

5. (Currently Amended) A passive type emission flux sampler according to claim 1, ~~2 or 3~~, wherein a water retaining material for keeping the test specimen in a humid circumstance is disposed in the hollow casing.

6. (Currently Amended) A passive type emission flux sampler according to claim 1, ~~2 or 3~~, wherein an annular rib extending from the end edge of the opening to the inside of the casing is formed.

7. (Currently Amended) A passive type emission flux sampler according to claim 1, ~~2 or 3~~, wherein an air permeable spacer of a predetermined thickness for ensuring an predetermined distance between the opening and the test specimen is disposed.

8. (Original) A measuring apparatus for emission flux of a passive type flux sampler using a test specimen that takes place color change reaction with a specified chemical substance under humid circumstance, in which the flux sampler is formed with an opening at the bottom surface of a hollow casing to be bonded to an inspection object for taking in a chemical substance released from an inspection object into the casing, a test specimen that takes place color change reaction with the chemical substance in a humid circumstance is disposed to the inner surface of the casing of an opposite side of the opening,

a light shielding chamber formed with a setting stage for positioning the flux sampler reacted for a predetermined time is provided with an light source for irradiating a measuring light to the test specimen of the flux sampler, and an optical sensor for detecting the intensity of a reflection light from the test specimen of flux sampler, and

a calculation processing device for calculating the emission flux based on the intensity of the reflection light detected by the optical sensor is provided.

9. (Original) A measuring apparatus for emission flux of a passive type flux sampler using a test specimen that takes place color change reaction with a specified chemical substance under humid circumstance, in which the flux sampler is formed with an opening at the bottom surface of a hollow casing to be bonded to an inspection object for taking in a chemical substance released from an inspection object into the casing, a test specimen that takes place color change reaction with the chemical substance in a humid circumstance is disposed to the inner surface of the casing of an opposite side of the opening, and the casing is formed with a transparent observing section for observing the color change of the test specimen from the outside in a state being bonded to the inspection object, a light shielding chamber formed with a setting stage for positioning the flux sampler reacted for a predetermined time is provided with an light source for irradiating a measuring light to the test specimen of the flux sampler through the observing section, and an optical sensor for detecting the intensity of a reflection light from the test specimen of flux sampler, and a calculation processing device for calculating the emission flux based on the intensity of the reflection light detected by the optical sensor is provided.

10. (New) A passive type emission flux sampler according to claim 3, wherein a gas barrier film is formed to at least one of the outer surface or

the inner surface of the hollow casing to provide the hollow casing with a gas barrier property.

11. (New) A passive type emission flux sampler according to claim 2, wherein a water retaining material for keeping the test specimen in a humid circumstance is disposed in the hollow casing.

12. (New) A passive type emission flux sampler according to claim 3, wherein a water retaining material for keeping the test specimen in a humid circumstance is disposed in the hollow casing.

13. (New) A passive type emission flux sampler according to claim 2, wherein an annular rib extending from the end edge of the opening to the inside of the casing is formed.

14. (New) A passive type emission flux sampler according to claim 3, wherein an annular rib extending from the end edge of the opening to the inside of the casing is formed.

15. (New) A passive type emission flux sampler according to claim 2, wherein an air permeable spacer of a predetermined thickness for ensuring a predetermined distance between the opening and the test specimen is disposed.

16. (New) A passive type emission flux sampler according to claim 3, wherein an air permeable spacer of a predetermined thickness for ensuring an predetermined distance between the opening and the test specimen is disposed.